



EFFICIENT IMPLANTATION OF HEART VALVE PROSTHESES

ABSTRACT OF THE DISCLOSURE

Tools can be used to assist with the implantation of heart valve prostheses, especially stentless aortic heart valve prostheses. In some embodiments, a heart valve prosthesis includes a plurality of flexible leaflets, a commissure support and a plurality of fasteners inserted into the inner surface of the commissure support and protruding from the outer surface of the commissure support. The fasteners comprise an elongated portion and a tip at an end of the elongated portion. In other embodiments, a heart valve prosthesis includes a plurality of flexible leaflets and a reinforcement secured to an inner surface of a valve commissure support. The reinforcement has an aperture. The heart valve prosthesis and fastener components can be placed into kits. The fasteners can be used to perform improved implantation procedures.